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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

 Full text available: [pdf\(4.21 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Computing curricula 2001](#)

 September 2001 **Journal on Educational Resources in Computing (JERIC)**

 Full text available: [pdf\(613.63 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)
[html\(2.78 KB\)](#)

3 [An empirically based system for processing definite descriptions](#)

Renata Vieira, Massimo Poesio

 December 2000 **Computational Linguistics**, Volume 26 Issue 4

 Full text available: [pdf\(2.94 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#)
[Publisher Site](#)

We present an implemented system for processing definite descriptions in arbitrary domains. The design of the system is based on the results of a corpus analysis previously reported, which highlighted the prevalence of discourse-new descriptions in newspaper corpora. The annotated corpus was used to extensively evaluate the proposed techniques for matching definite descriptions with their antecedents, discourse segmentation, recognizing discourse-new descriptions, and suggesting anchors for brid ...

4 [Clustering: Probabilistic combination of text classifiers using reliability indicators: models and results](#)

Paul N. Bennett, Susan T. Dumais, Eric Horvitz

 August 2002 **Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval**

 Full text available: [pdf\(126.99 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The intuition that different text classifiers behave in qualitatively different ways has long motivated attempts to build a better metaclassifier via some combination of classifiers. We introduce a probabilistic method for combining classifiers that considers the context-sensitive reliabilities of contributing classifiers. The method harnesses *reliability indicators*---variables that provide a valuable signal about the performance of classifiers in different situations. We provide background ...

Keywords: classifier combination, metaclassifiers, reliability indicators, text classification

5 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann
August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 8 Issue 4


Full text available:  pdf(6.32 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

6 Query evaluation techniques for large databases

Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available:  pdf(9.37 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

7 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems


Gordon B. Davis, John T. Gorgone, J. Daniel Cougar, David L. Feinstein, Herbert E. Longenecker
December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1

Full text available:  pdf(7.24 MB)

Additional Information: [full citation](#), [citations](#)

8 Interactive Editing Systems: Part II

Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available:  pdf(9.17 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Incremental data flow analysis in a structured program editor

Frank Kenneth Zadeck

June 1984 **ACM SIGPLAN Notices , Proceedings of the 1984 SIGPLAN symposium on Compiler construction**, Volume 19 Issue 6

Full text available:  pdf(1.03 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

For many years, the generally accepted methods for solving global data flow analysis problems (GDFAPs) have relied on the *bit vector paradigm* [Alle 70] [Kenn 81]. In these algorithms, the information for each variable is represented as a position in a bit vector. These vectors are propagated from node to node during the analysis of the program. This paper investigates a different paradigm for solving GDFAPs. In this strategy, the data flow solution for each variable is computed independent ...

10 Program Transformation Systems

H. Partsch, R. Steinbrüggen

September 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 3

Full text available:  pdf(3.00 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Curriculum 68: Recommendations for academic programs in computer science: a report of the ACM curriculum committee on computer science

William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thomas A. Keenan, William B. Kehl, Edward J. McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J. Schweppe, William Viavant, David M. Young

March 1968 **Communications of the ACM**, Volume 11 Issue 3

Full text available:  pdf(6.63 MB) Additional Information: [full citation](#), [references](#), [citations](#)

Keywords: computer science academic programs, computer science bibliographies, computer science courses, computer science curriculum, computer science education, computer science graduate programs, computer science undergraduate programs

12 Data base directions: the next steps

John L. Berg

November 1976 , Volume 8 , 8 Issue 4 , 2

Full text available:  pdf(9.95 MB) Additional Information: [full citation](#), [abstract](#)

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

13 Using thumbnails to search the Web

Allison Woodruff, Andrew Faulring, Ruth Rosenholtz, Julie Morrisson, Peter Pirolli

March 2001 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available:  pdf(424.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce a technique for creating novel, textually-enhanced thumbnails of Web pages.


These thumbnails combine the advantages of image thumbnails and text summaries to provide consistent performance on a variety of tasks. We conducted a study in which participants used three different types of summaries (enhanced thumbnails, plain thumbnails, and text summaries) to search Web pages to find several different types of information. Participants took an average of 67, 86, and 95 seconds to f ...

Keywords: Web search task, thumbnails

14 Automatic parsing for content analysis

Frederick J. Damerau

June 1970 **Communications of the ACM**, Volume 13 Issue 6

Full text available:  [pdf\(4.07 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


Although automatic syntactic and semantic analysis is not yet possible for all of an unrestricted natural language text, some applications, of which content analysis is one, do not have such a stringent coverage requirement. Preliminary studies show that the Harvard Syntactic Analyzer can produce correct and unambiguous identification of the subject and object of certain verbs for approximately half of the relevant occurrences. This provides a degree of coverage for content analysis variable ...

Keywords: content analysis, information retrieval, language analysis, natural language processing, parsing, syntactic analysis, text processing

15 Types and persistence in database programming languages

Malcolm P. Atkinson, O. Peter Buneman

June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Full text available:  [pdf\(7.91 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

16 News on-demand for multimedia networks

Gene Miller, Greg Baber, Mark Gilliland

September 1993 **Proceedings of the first ACM international conference on Multimedia**

Full text available:  [pdf\(106.03 KB\)](#)

 [ps\(1.21 MB\)](#)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: authoring, database, digital video, information service, messaging, networked multimedia, news, retrieval, wideband

17 Parallel text search methods

Gerard Salton, Chris Buckley

February 1988 **Communications of the ACM**, Volume 31 Issue 2

Full text available:  [pdf\(1.53 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A comparison of recently proposed parallel text search methods to alternative available search strategies that use serial processing machines suggests parallel methods do not provide large-scale gains in either retrieval effectiveness or efficiency.

**18** Special issue on persistent object systems: Orthogonally persistent object systems

Malcolm Atkinson, Ronald Morrison

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 4 Issue 3Full text available: [pdf\(5.02 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Persistent Application Systems (PASs) are of increasing social and economic importance. They have the potential to be long-lived, concurrently accessed, and consist of large bodies of data and programs. Typical examples of PASs are CAD/CAM systems, office automation, CASE tools, software engineering environments, and patient-care support systems in hospitals. Orthogonally persistent object systems are intended to provide improved support for the design, construction, maintenance, and operation of ...

Keywords: database programming languages, orthogonal persistence, persistent application systems, persistent programming languages

**19** The proposed new Computing Reviews classification scheme

Anthony Ralston

July 1981 **Communications of the ACM**, Volume 24 Issue 7Full text available: [pdf\(972.02 KB\)](#)Additional Information: [full citation](#), [citations](#), [index terms](#)**20** Discourse segmentation by human and automated means

Rebecca J. Passonneau, Diane J. Litman

March 1997 **Computational Linguistics**, Volume 23 Issue 1Full text available: [pdf\(2.71 MB\)](#) [Publisher Site](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The need to model the relation between discourse structure and linguistic features of utterances is almost universally acknowledged in the literature on discourse. However, there is only weak consensus on what the units of discourse structure are, or the criteria for recognizing and generating them. We present quantitative results of a two-part study using a corpus of spontaneous, narrative monologues. The first part of our paper presents a method for empirically validating multitutterance units ...

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21 [Concepts and capabilities of a database computer](#)

Jayanta Banerjee, David K. Hsiao, Richard I. Baum

 December 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 4

 Full text available: [pdf\(2.79 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The concepts and capabilities of a database computer (DBC) are given in this paper. The proposed design overcomes many of the traditional problems of database system software and is one of the first to describe a complete data-secure computer capable of handling large databases. This paper begins by characterizing the major problems facing today's database system designers. These problems are intrinsically related to the nature of conventional hardware and can only be solved by i ...

Keywords: clustering, content-addressable memory, database computers, keywords, mass memory, performance, security, structure memory

22 [The PSG system: from formal language definitions to interactive programming environments](#)

Rolf Bahlke, Gregor Snelting

 August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4

 Full text available: [pdf\(2.35 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The PSG programming system generator developed at the Technical University of Darmstadt produces interactive, language-specific programming environments from formal language definitions. All language-dependent parts of the environment are generated from an entirely nonprocedural specification of the language's syntax, context conditions, and dynamic semantics. The generated environment consists of a language-based editor, supporting systematic program development by named program fragments, ...

23 [Technical reports](#)

SIGACT News Staff

 January 1980 **ACM SIGACT News**, Volume 12 Issue 1


 Full text available: [pdf\(5.28 MB\)](#)

 Additional Information: [full citation](#)

24 [Applications of combinatorial designs in computer science](#)

Charles J. Colbourn, Paul C. van Oorschot

June 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 2

Full text available:  pdf(2.99 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The theory of combinatorial designs has been used in widely different areas of computation concerned with the design and analysis of both algorithms and hardware. Combinatorial designs capture a subtle balancing property that is inherent in many difficult problems and hence can provide a sophisticated tool for addressing these problems. The role of combinatorial designs in solving many problems that are basic to the field of computing is explored in this paper. Case studies of many applications ...

25 Concurrent search of mobile users in cellular networks

Rung-Hung Gau, Zygmunt J. Haas

February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 1

Full text available:  pdf(381.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose to concurrently search for a number of mobile users in a wireless cellular network based on the probabilistic information about the locations of mobile users. The concurrent search approach guarantees that all k mobile users will be located within k time slots. It is shown that even in the worst case when mobile users appear equally in all the cells of the network, the concurrent search approach is able to reduce the average paging cost by 25%. More important ...

Keywords: cellular networks, concurrent search, probabilistic location information

26 Searching in metric spaces with user-defined and approximate distances

Paolo Ciaccia, Marco Patella

December 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 4

Full text available:  pdf(555.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Novel database applications, such as multimedia, data mining, e-commerce, and many others, make intensive use of similarity queries in order to retrieve the objects that better fit a user request. Since the effectiveness of such queries improves when the user is allowed to personalize the similarity criterion according to which database objects are evaluated and ranked, the development of access methods able to efficiently support user-defined similarity queries becomes a basic requirement. In this paper ...

Keywords: Distance metrics, user-defined queries

27 Information retrieval on the web

Mei Kobayashi, Koichi Takeda

June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2



Full text available:  pdf(213.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet users ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

28 File servers for network-based distributed systems

Liba Svobodova

December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4Full text available:  pdf(4.23 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**29 Query clustering using user logs**January 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 1Full text available:  pdf(1.31 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Query clustering is a process used to discover frequently asked questions or most popular topics on a search engine. This process is crucial for search engines based on question-answering. Because of the short lengths of queries, approaches based on keywords are not suitable for query clustering. This paper describes a new query clustering method that makes use of user logs which allow us to identify the documents the users have selected for a query. The similarity between two queries may be ded ...

Keywords: Query clustering, search engine, user log, web data mining

30 DEADLINER: building a new niche search engine

A. Kruger, C. L. Giles, F. M. Coetzee, E. Glover, G. W. Flake, S. Lawrence, C. Omlin
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Full text available:  pdf(340.59 KB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Bayesian fusion approaches, text extraction, web search

31 On-line Text Editing: A Survey

Andries van Dam, David E. Rice

September 1971 **ACM Computing Surveys (CSUR)**, Volume 3 Issue 3Full text available:  pdf(1.91 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper is a survey of current methods for the on-line creation and editing of computer programs and of ordinary manuscripts text. The characteristics of on-line editing systems are examined and examples of various implementations are described in three categories: program editors, text editors, and terminals with local editing facilities.

32 Model checking without a model: an analysis of the heart-beat monitor of a telephone switch using VeriSoft

Patrice Godefroid, Robert S. Hanmer, Lalita Jategaonkar Jagadeesan

March 1998 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1998 ACM SIGSOFT international symposium on Software testing and analysis**, Volume 23 Issue 2

Full text available:  pdf(1.15 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

VeriSoft is a tool for systematically exploring the state spaces of systems composed of several concurrent processes executing arbitrary code written in full-fledged programming languages such as C or C++. The state space of a concurrent system is a directed graph that represents the combined behavior of all concurrent components in the system. By exploring its state space, VeriSoft can automatically detect coordination problems between the processes of a concurrent system. We report in this paper ...

33 Workshop on compositional software architectures: workshop report

May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Full text available:  [pdf\(2.91 MB\)](#) Additional Information: [full citation](#), [index terms](#)

34 Knowledge and representation: Leveraging a common representation for personalized search and summarization in a medical digital library

Kathleen R. McKeown, Noemie Elhadad, Vasileios Hatzivassiloglou

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  [pdf\(116.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Despite the large amount of online medical literature, it can be difficult for clinicians to find relevant information at the point of patient care. In this paper, we present techniques to personalize the results of search, making use of the online patient record as a sophisticated, pre-existing user model. Our work in *PERSIVAL*, a medical digital library, includes methods for re-ranking the results of search to prioritize those that better match the patient record. It also generates summa ...

35 Special issue on word sense disambiguation: Introduction to the special issue on word sense disambiguation: the state of the art

Nancy Ide, Jean Véronis

March 1998 **Computational Linguistics**, Volume 24 Issue 1

Full text available:  [pdf\(3.44 MB\)](#)  Additional Information: [full citation](#), [references](#), [citations](#)
[Publisher Site](#)

36 Bandwidth-delay constrained path selection under inaccurate state information

Turgay Korkmaz, Marwan Krunz

June 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 3

Full text available:  [pdf\(976.94 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the key issues in any quality-of-service (QoS) routing framework is how to compute a path that satisfies given QoS constraints. In this paper, we focus on the path computation problem subject to the bandwidth and delay constraints. This problem can be easily solved if the exact state information is available to the node performing the path computation function. In practice, however, nodes have only imprecise knowledge of the network state. The reliance on outdated information and treating ...

Keywords: Lagrange relaxation, multiobjective optimization, quality-of-service (QoS) routing, stochastic shortest path

37 Interactive Editing Systems: Part I

Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available:  [pdf\(3.08 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

38 Distributed file systems: concepts and examples

Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

Full text available:  [pdf\(5.33 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical

configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

39 Parallelism in relational data base systems: architectural issues and design approaches

Hamid Pirahesh, C. Mohan, Josephine Cheng, T. S. Liu, Pat Selinger

July 1990 **Proceedings of the second international symposium on Databases in parallel and distributed systems**

Full text available:  pdf(2.50 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With current systems, some important complex queries may take days to complete because of: (1) the volume of data to be processed, (2) limited aggregate resources. Introducing parallelism addresses the first problem. Cheaper, but powerful computing resources solve the second problem. According to a survey by Brodie,¹ only 10% of computerized data is in data bases. This is an argument for both more variety and volume of data to be moved into data base systems. We conject ...

40 Structuring Z specifications with views

Daniel Jackson

October 1995 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 4 Issue 4

Full text available:  pdf(1.66 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A view is a partial specification of a program, consisting of a state space and a set of operations. A full specification is obtained by composing several views, linking them through their states (by asserting invariants across views) and through their operations (by defining external operations as combinations of operations from different views). By encouraging multiple representations of the program's state, view structuring lends clarity and terseness to the specification of operations. ...

Keywords: Z, formal specification, implicit definition, views

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John Colter, Netscape Navigator

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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

 Full text available: [pdf\(4.21 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Computing curricula 2001](#)

 September 2001 **Journal on Educational Resources in Computing (JERIC)**

 Full text available: [pdf\(613.63 KB\)](#)
[html\(2.78 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

3 [An empirically based system for processing definite descriptions](#)

Renata Vieira, Massimo Poesio

 December 2000 **Computational Linguistics**, Volume 26 Issue 4

Full text available:

[pdf\(2.94 MB\)](#)

[Publisher Site](#)

 Additional Information: [full citation](#), [abstract](#), [references](#)

We present an implemented system for processing definite descriptions in arbitrary domains. The design of the system is based on the results of a corpus analysis previously reported, which highlighted the prevalence of discourse-new descriptions in newspaper corpora. The annotated corpus was used to extensively evaluate the proposed techniques for matching definite descriptions with their antecedents, discourse segmentation, recognizing discourse-new descriptions, and suggesting anchors for brid ...

4 [Clustering: Probabilistic combination of text classifiers using reliability indicators: models and results](#)

Paul N. Bennett, Susan T. Dumais, Eric Horvitz

 August 2002 **Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval**

 Full text available: [pdf\(126.99 KB\)](#)


 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The intuition that different text classifiers behave in qualitatively different ways has long motivated attempts to build a better metaclassifier via some combination of classifiers. We introduce a probabilistic method for combining classifiers that considers the context-sensitive reliabilities of contributing classifiers. The method harnesses *reliability indicators*---variables that provide a valuable signal about the performance of classifiers in different situations. We provide background ...

Keywords: classifier combination, metaclassifiers, reliability indicators, text classification

5 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann
August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 8 Issue 4


Full text available:  [pdf\(6.32 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

6 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker
December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1

Full text available:  [pdf\(7.24 MB\)](#)

Additional Information: [full citation](#), [citations](#)

7 Query evaluation techniques for large databases

Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available:  [pdf\(9.37 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processing ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

8 Interactive Editing Systems: Part II


Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available:  [pdf\(9.17 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Incremental data flow analysis in a structured program editor

Frank Kenneth Zadeck

June 1984 **ACM SIGPLAN Notices , Proceedings of the 1984 SIGPLAN symposium on Compiler construction**, Volume 19 Issue 6Full text available:  [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

For many years, the generally accepted methods for solving global data flow analysis problems (GDFAPs) have relied on the *bit vector paradigm* [Alle 70] [Kenn 81]. In these algorithms, the information for each variable is represented as a position in a bit vector. These vectors are propagated from node to node during the analysis of the program. This paper investigates a different paradigm for solving GDFAPs. In this strategy, the data flow solution for each variable is computed independent ...

10 Program Transformation Systems

H. Partsch, R. Steinbrüggen

September 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 3Full text available:  [pdf\(3.00 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**11 Curriculum 68: Recommendations for academic programs in computer science: a report of the ACM curriculum committee on computer science**

William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thomas A. Keenan, William B. Kehl, Edward J. McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J. Schweppe, William Viavant, David M. Young

March 1968 **Communications of the ACM**, Volume 11 Issue 3Full text available:  [pdf\(6.63 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

Keywords: computer science academic programs, computer science bibliographies, computer science courses, computer science curriculum, computer science education, computer science graduate programs, computer science undergraduate programs

12 Data base directions: the next steps

John L. Berg

November 1976 , Volume 8 , 8 Issue 4 , 2

Full text available:  [pdf\(9.95 MB\)](#) Additional Information: [full citation](#), [abstract](#)

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

13 Using thumbnails to search the Web

Allison Woodruff, Andrew Faulring, Ruth Rosenholtz, Julie Morrisson, Peter Pirolli

March 2001 **Proceedings of the SIGCHI conference on Human factors in computing systems**Full text available:  [pdf\(424.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce a technique for creating novel, textually-enhanced thumbnails of Web pages.

These thumbnails combine the advantages of image thumbnails and text summaries to provide consistent performance on a variety of tasks. We conducted a study in which participants used three different types of summaries (enhanced thumbnails, plain thumbnails, and text summaries) to search Web pages to find several different types of information. Participants took an average of 67, 86, and 95 seconds to f ...

Keywords: Web search task, thumbnails

14 Automatic parsing for content analysis

Frederick J. Damerau

June 1970 **Communications of the ACM**, Volume 13 Issue 6

Full text available:  [pdf\(4.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Although automatic syntactic and semantic analysis is not yet possible for all of an unrestricted natural language text, some applications, of which content analysis is one, do not have such a stringent coverage requirement. Preliminary studies show that the Harvard Syntactic Analyzer can produce correct and unambiguous identification of the subject and object of certain verbs for approximately half of the relevant occurrences. This provides a degree of coverage for content analysis variable ...

Keywords: content analysis, information retrieval, language analysis, natural language processing, parsing, syntactic analysis, text processing

15 Types and persistence in database programming languages

Malcolm P. Atkinson, O. Peter Buneman

June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Full text available:  [pdf\(7.91 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

16 News on-demand for multimedia networks

Gene Miller, Greg Baber, Mark Gilliland

September 1993 **Proceedings of the first ACM international conference on Multimedia**

Full text available:  [pdf\(106.03 KB\)](#)  [ps\(1.21 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: authoring, database, digital video, information service, messaging, networked multimedia, news, retrieval, wideband

17 Special issue on persistent object systems: Orthogonally persistent object systems

Malcolm Atkinson, Ronald Morrison

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 3

Full text available:  [pdf\(5.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Persistent Application Systems (PASs) are of increasing social and economic importance. They have the potential to be long-lived, concurrently accessed, and consist of large bodies of data and programs. Typical examples of PASs are CAD/CAM systems, office automation, CASE tools, software engineering environments, and patient-care support systems in


hospitals. Orthogonally persistent object systems are intended to provide improved support for the design, construction, maintenance, and operation of ...

Keywords: database programming languages, orthogonal persistence, persistent application systems, persistent programming languages

18 The proposed new Computing Reviews classification scheme

Anthony Ralston

July 1981 **Communications of the ACM**, Volume 24 Issue 7

Full text available:  [pdf\(972.02 KB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)



19 Parallel text search methods

Gerard Salton, Chris Buckley

February 1988 **Communications of the ACM**, Volume 31 Issue 2

Full text available:  [pdf\(1.53 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A comparison of recently proposed parallel text search methods to alternative available search strategies that use serial processing machines suggests parallel methods do not provide large-scale gains in either retrieval effectiveness or efficiency.



20 Discourse segmentation by human and automated means

Rebecca J. Passonneau, Diane J. Litman

March 1997 **Computational Linguistics**, Volume 23 Issue 1

Full text available:  [pdf\(2.71 MB\)](#)  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The need to model the relation between discourse structure and linguistic features of utterances is almost universally acknowledged in the literature on discourse. However, there is only weak consensus on what the units of discourse structure are, or the criteria for recognizing and generating them. We present quantitative results of a two-part study using a corpus of spontaneous, narrative monologues. The first part of our paper presents a method for empirically validating multitutterance units ...

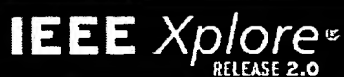


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